## BRUHATH BANGALORE MAHANAGARA PALIKE

**Name of work:Construction of new culverts in Byatarayanapura, Amruthahalli, Jakkur Layout and surrounding areas in ward 07, Byatarayanapura**

| Description of work | No. | Dimensions | | | Qty | Rate | Unit | Amount |
|---|---|---|---|---|---|---|---|---|
| | | L | B | D | | | | |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| KSRB 2-2.2:Earth work excavation for foundation of building, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in **ORDINARY soil** not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches , stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications and direction of the Engineer-in-charge. Specification. No.KBS 2.1(b)/2.3.5. ( P-5, It. No.2.1) | | | | | | | | |
| Basic rate | | 77.00 | | | | | | |
| Add A.W. 8% | | 6.16 | | | | | | |
| Total | | 83.16 | | | | | | |
| culverts | 26 | 5.00 | 1.80 | 1.00 | 234.00 | | | |
| | | | | Total:- | **234.00** | 83.16 | Cum | 19460.00 |
| **KSRB 4-1.3:** Providing and laying in position plain cement concrete of nominal mix 1:4:8 using **40mm** and down size graded granite metal machine mixed, conrete laid in layers not exceeding 15 cms. Thick well compacted in foundation and plinth, including cost of all materials labour, HOM of machinery, curing complete as per specification . (Pg.No.12, It.4.3) | | | | | | | | |
| Basic rate | | 4695.00 | | | | | | |
| Add A.W. 8% | | 375.60 | | | | | | |
| Total | | 5070.60 | | | | | | |
| | 26 | 5 | 1.8 | 0.12 | 28.08 | | | |
| | | | | | **28.08** | 5070.60 | Cum | **142382.448** |
| **KSRB4-1.6:** Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs, with 20 mm and down size graded granite matel coarse aggregates @ 0.69 cum and fine aggragtes @ 0.459cum, machine mixed concrete laid in layers not eceeding 15 cms, thick well compacted, in foundation, plinth and cills including cost of all materials, labour HOM machinery curing complate as per specifications. (Page No. 12. Item No. 4.6) | | | | | | | | |
| Basic rate | | 5084.00 | | | | | | |
| Add A.W. 8% | | 406.72 | | | | | | |
| Total | | 5490.72 | | | | | | |
| **Culvert bottom** | 26 | 5 | 1.8 | 0.1 | 23.40 | | | |
| **coping** | 52 | 5 | 1.8 | 0.10 | 46.80 | | | |
| | 26 X 2 | | | | **70.20** | 5490.72 | Cum | 385449.00 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **KSRB 5.3-1:**Providing and constructing granite /trap/basalt size stone masonry in foundation with cement mortar 1:6, stone hammered dressed in courses not less than 20cms hign, bond stones at two m apart in each course including cost of materials, labour, curing etc., complete as per specifications.(P-235. Item No. 5.3) | | | | | | | | |
| Basic rate | | 3200.00 | | | | | | |
| Add A.W. 8% | | 256.00 | | | | | | |
| Total | | 3456.00 | | | | | | |
| culvert | 52 | 5 | 0.45 | 0.60 | 70.20 | | | |
| | 26x2 | | | | **70.20** | 3456.00 | Cum | 242612.00 |
| **KSRB 5.3-1:**Providing ruled pointing of course stone msonry with cement mortar 1:3 20 mm deep, after raking joints to depth of 20 mm nicley lining, including cost of materials, labour, curing etc., complete as per specifications and directions of the engineer-in-charge. (P-112, Item No. 15.8) | | | | | | | | |
| Basic rate | | **33.00** | | | | | | |
| Add A.W. 8% | | 2.64 | | | | | | |
| Total | | **35.64** | | | | | | |
| | 52 | 5 | | 0.60 | 156.00 | | | |
| | 26x2 | | | | **156.00** | 35.64 | Sqm | 5560.00 |
| Providing and fixing 20 cm thick pre cast RCC covering slab using reinforced cement concrete M 20 mix with stone aggregate 20 mm and down size including centring shuttering reinforcement and bar bending machine mixed concrete laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing comlete as per specification (Data Rate) | | | | | | | | |
| Basic rate | = | 5111.00 | | | | | | |
| Total | = | 5111.00 | | | | | | |
| Culvert slabs | 210 | 1.80 | 0.60 | | 226.80 | | | |
| | | | | Total:- | **226.80** | 5111.00 | Cum | 1159175.00 |
| | | | | | | | | |
| KSRRB M100-1 Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing dipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (Page 118, item No 17.1) | | | | | | | | |
| Qty vide item no.1 | | | | | 234.00 | 94.82 | Cum | 22188.00 |
| Basic rate | = | 62.20 | | | | | | |
| Conveying charges for 10Kms | | | | | | | | |
| Rs. 2.00 Tonne Km. | | | | | | | | |
| Average Weight of earth 1.28 Tonne/Km. | | | | | | | | |
| For 10 Km | | | | | | | | |
| Rs.2.00X1.28TonneX10Km | = | 25.60 | | | | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Total | = | 87.80 | | | | | | |
| Add Area Weightage 8% | = | 7.02 | | | | | | |
| | | 94.82 | | | | | | |
| Sub total | | | | | | | | 1976826.45 |
| Add 1% third party inspection charges | | | | | | | | 19768.26 |
| Miscellaneous and rounding off | | | | | | | | 3405.29 |
| | | | | | | Total:- | | 2000000.00 |

Certificate:-

1)This is certified that the work spot comes under BBMP limits only.

2)The rates are as per CSR of 2015-16 year of PWD Bangalore Circle.

3)The Provisions made in estimate are adequate and necessary.

Asst.Engineer
Ward no.7

Asst.Exe.Engineer
Kodigehalli Sub-division
B.B.M.P.

Executive Engineer
Byatrayanapura Division
B.B.M.P.
15/12

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

**Administrative Approval**
Accorded For 20.00 lakh Rs
Head of A/C P-1771
CER NO :57 Dt:. 28/12/16

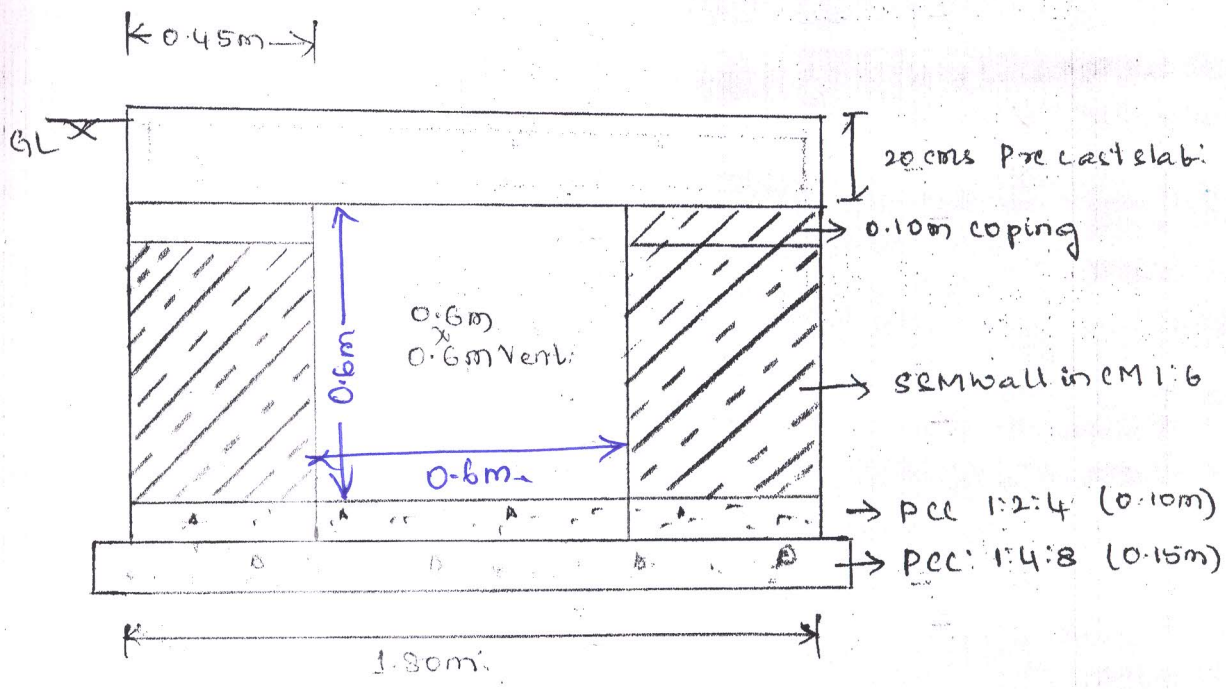
TA CE (YNK)

**Technical Sanction**
Accorded For .....
Head of A/C.....
CER NO :..... Dt:..

TA CE (YNK)

TECHNICAL SANCTION
Accd: Twenty Lakhs only
Head: P-1771
Div. Ref. No. 88/16-17 28/12/16
AE
SE(BTP) 28/12

ne of workConstruction of new culverts in Byatarayanapura, Amruthahalli, Jakkur Layout and rounding areas in ward 07, Byatarayanapura




CROSS-SECTION OF SSM-CULVERT

AE (WT)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092